

IN THE CLAIMS:

Please amend the claims as indicated in the complete listing of pending claims provided below.

1. (Previously Presented) A method comprising:  
finding a set of records of a database matching an instance of a component of an object type;  
updating the set of records of the database based on a first set of instances of components of the object type, the instances of components of the first set corresponding to the records of the set of records; and  
inserting new records in the database corresponding to a second set of instances of components of the object type, the instances of components of the second set not matching records of the set of records.
2. (Currently Amended) The method of claim 28, further comprising:  
deleting records of the set of records, the records deleted related to components of the object type not included in the instances of components; ~~and wherein:~~  
wherein the repeating further includes deleting with respect to instances of child components of the components.
3. (Currently Amended) The method of claim 28, further comprising:  
extracting a set of userkeys related to the object type and instances of components of the object type; ~~and wherein:~~  
wherein the finding includes utilizing the set of userkeys; and

wherein the ~~and~~-repeating includes extracting a set of userkeys related to the instances of child components.

4. (Currently Amended) The method of claim 3 wherein:  
the finding includes utilizing SQL queries directed to the database.
5. (Currently Amended) The method of claim 4 wherein:  
the deleting further includes cascaded deleting.
6. (Previously Presented) A method comprising:  
finding a set of records of a database matching an instance of an object type;  
updating instances of components of the instance based on the set of records, the  
instances of components corresponding to records of the set of records, the  
instances of components previously present in the object instance; and  
inserting new instances of components in the object instance corresponding to the set  
of records, the new instances of components corresponding to records of the  
set of records.
7. (Currently Amended) The method of claim 29, further comprising:  
deleting instances of components of the instance of the object type which do not  
correspond to at least one record of the set of records; ~~and wherein:~~  
wherein the repeating further includes deleting with respect to child components of  
the components.
8. (Currently Amended) The method of claim 29, further comprising:

extracting a set of userkeys related to the instance of the object type and instances of components of the instance of the object type; ~~and wherein:~~  
wherein the finding includes utilizing the set of userkeys; and  
wherein the repeating includes extracting a set of userkeys related to the child components.

9. (Currently Amended) The method of claim 8 wherein:  
the finding includes utilizing SQL queries directed to the database.
10. (Currently Amended) The method of claim 9 wherein:  
the deleting further includes cascaded ~~deleting~~ deleting.
11. (Currently Amended) An apparatus comprising:  
means for finding a set of records of a database matching an instance of an object type;  
means for updating instances of components of the instance based on the set of records, the instances of components corresponding to records of the set of records, the instances of components previously present in the instance;  
means for inserting new instances of components in the instance corresponding to the set of records, the new instances of components corresponding to records of the set of records; and  
~~and~~ means for recursively utilizing the means for finding, means for updating and means for inserting with respect to child components of the components.
12. (Currently Amended) The apparatus of claim 11 further comprising:

means for deleting instances of components of the instance which do not correspond to at least one record of the set of records; ~~and wherein:~~  
wherein the means for recursively utilizing is further capable of utilizing means for deleting with respect to child components of the components.

13. (Currently Amended) The apparatus of claim 11 further comprising:  
means for extracting a set of userkeys related to the instance and instances of components of the instance; ~~and wherein:~~  
wherein the means for finding includes utilizes the set of userkeys; and  
wherein ~~and~~ the means for recursively repeating utilizes the means for extracting with respect to the child components.
14. (Previously Presented) The apparatus of claim 13 wherein:  
the means for finding utilizes SQL queries directed to the database.
15. (Original) The apparatus of claim 14 wherein:  
the means for deleting includes means for cascaded deleting.
16. (Currently Amended) A method comprising:  
finding a set of records of a repository matching an object instance of an object type;  
updating instances of components of the object instance based on the set of records,  
the instances of components corresponding to records of the set of records, the  
instances of components previously present in the object instance;

inserting new instances of components in the object instance corresponding to the set of records, the new instances of components corresponding to records of the set of records; and  
~~and~~ recursively repeating the finding, updating and inserting with respect to child components of the components.

17. (Previously Presented) A machine-readable medium embodying instructions, the instructions, when executed by a processor, causing the processor to perform a method, the method comprising:  
finding a set of records of a database matching an instance of a component of an object type;  
updating the set of records of the database based on a first set of instances of components of the object type, the instances of components of the first set corresponding to the records of the set of records; and  
inserting new records in the database corresponding to a second set of instances of components of the object type, the instances of components of the second set not matching records of the set of records.
18. (Currently Amended) The machine readable medium of claim 27, further embodying instructions, which, when executed by the processor, cause the processor to perform the method further comprising:  
deleting records of the set of records, the records deleted related to components of the object type not included in the instances of components; ~~and wherein:~~  
wherein the repeating further includes deleting with respect to instances of child components of the components.

19. (Currently Amended) The machine readable medium of claim 27, further embodying instructions, which, when executed by the processor, cause the processor to perform the method further comprising:  
extracting a set of userkeys related to the object type and instances of components of the object type; ~~and wherein:~~  
wherein the finding includes utilizing the set of userkeys;  
wherein the ~~and~~-repeating includes extracting a set of userkeys related to the instances of child components.
20. (Currently Amended) The machine readable medium of claim 19, further embodying instructions, which, when executed by the processor, cause the processor to perform the method wherein:  
the finding includes utilizing SQL queries directed to the database.
21. (Currently Amended) The machine readable medium of claim 20, further embodying instructions, which, when executed by the processor, cause the processor to perform the method wherein:  
the deleting further includes cascaded deleting.
22. (Currently Amended) A system comprising:  
a processor;  
a memory coupled to the processor;  
an interface coupled to the processor;

wherein the processor to find a set of records of a database matching an instance of a component of an object type,  
the processor also to update the set of records of the database based on a first set of instances of components of the object type, the instances of components of the first set corresponding to the records of the set of records,  
the processor also to insert new records in the database corresponding to a second set of instances of components of the object type, the instances of components of the second set not matching records of the set of records, and  
~~and~~ the processor also to recursively repeat the find, update and insert with respect to instances of child components of the components.

23. (Previously Presented) The system of claim 22:

the processor also to delete records of the set of records, the records deleted related to components of the object type not included in the instances of components;  
and  
the processor also to recursively repeat the delete with respect to instances of child components of the components.

24. (Currently Amended) The system of claim 22:

the processor also to extract a set of userkeys related to the object type and instances of components of the object type;  
the processor to utilize the set of userkeys for the find; and  
~~and~~ the processor to recursively repeat the extract a set of userkeys related to the instances of child components.

25. (Previously Presented) The system of claim 24:  
the processor to utilize SQL queries directed to the database for the find.
26. (Previously Presented) The system of claim 25:  
the processor to cascade delete for the delete.
27. (Previously Presented) The machine readable medium of claim 17, further embodying instructions, which, when executed by the processor, cause the processor to perform the method further comprising:  
repeating the finding, updating and inserting with respect to instances of child components of the components.
28. (Previously Presented) The method of claim 1, further comprising:  
repeating the finding, updating and inserting with respect to instances of child components of the components.
29. (Previously Presented) The method of claim 6, further comprising:  
repeating the finding, updating and inserting with respect to child components of the components.
30. (New) The method of claim 1, further comprising:  
finding the first set of instances of components of the object type, each of the first set of instances corresponding to a corresponding one of the set of records; and



finding the second set of instances of components of the object type, none of the second set of instances corresponding to any of the set of records.

31. (New) The method of claim 30, wherein the first and second sets of instances of components are instances of components of a same object.